



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Match each of the following terms to its definition:**

Karyotype

Genetic code

Anticodon

Double helix

Codon

Gene

Amino acid

Allele

1. \_\_\_\_\_ - different forms of a gene

2. \_\_\_\_\_ - the building blocks of protein molecules

3. \_\_\_\_\_  
complem

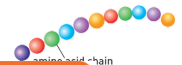
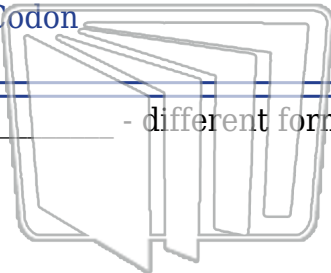
4. \_\_\_\_\_  
code for

5. \_\_\_\_\_  
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6. \_\_\_\_\_ - the sequence of DNA that codes for a specific trait

7. \_\_\_\_\_ - the correspondence between RNA triplets and specific amino acids that are used to form a particular protein

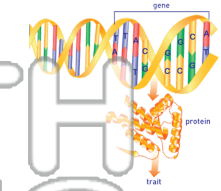
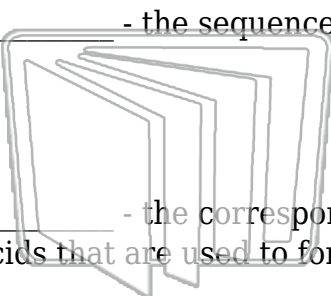
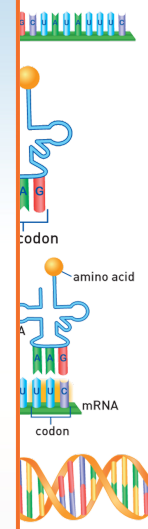
8. \_\_\_\_\_ - a picture of the actual chromosomes of the organism, arranged in pairs



3. \_\_\_\_\_  
complem

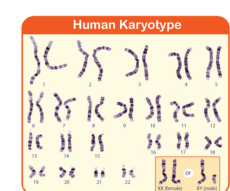
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**The Genetic Code**

|   | U             | C         | A          | G        |
|---|---------------|-----------|------------|----------|
| U | Phenylalanine | Serine    | Tyrosine   | Cysteine |
| C | Proline       | Leucine   | Proline    | Alanine  |
| A | Asparagine    | Threonine | Asparagine | Serine   |
| G | Glycine       | Alanine   | Glycine    | Valine   |





Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Match each of the following terms to its definition:**

Karyotype

Genetic code

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Double helix

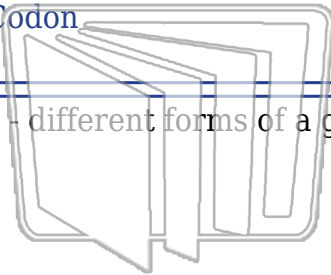
Codon

Gene

Amino acid

Allele

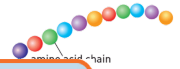
1. **allele** - different forms of a gene



NEW PATH LEARNING



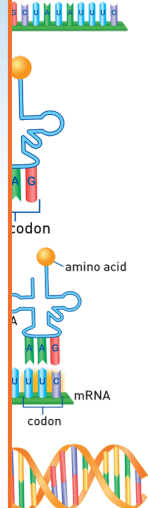
2. **amino acid** - the building blocks of protein molecules



3. **anticodon** complements the codon



4. **codon** codes for the production of an amino acid

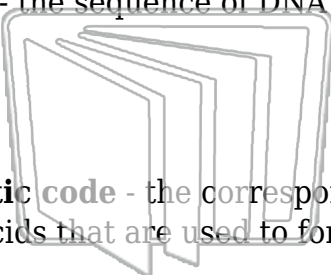


5. **double helix** is the structure of DNA

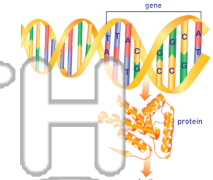
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6. **gene** - the sequence of DNA that codes for a specific trait



NEW PATH LEARNING



7. **genetic code** - the correspondence between RNA triplets and specific amino acids that are used to form a particular protein

The Genetic Code

| 5' | T             | C         | A             | G        | 3' |
|----|---------------|-----------|---------------|----------|----|
| U  | Phenylalanine | Serine    | Cysteine      | Cysteine | C  |
| C  | Proline       | Tyrosine  | Stop          | Stop     | A  |
| A  | Asparagine    | Proline   | Histidine     | Arginine | G  |
| G  | Alanine       | Leucine   | Glutamine     | Arginine | C  |
| U  | Phenylalanine | Proline   | Leucine       | Arginine | A  |
| C  | Proline       | Leucine   | Leucine       | Arginine | G  |
| A  | Asparagine    | Threonine | Asparagine    | Serine   | C  |
| G  | Alanine       | Threonine | Leucine       | Arginine | A  |
| U  | Phenylalanine | Alanine   | Alanine       | Alanine  | C  |
| C  | Proline       | Alanine   | Aspartic acid | Glycine  | C  |
| A  | Asparagine    | Alanine   | Glutamic acid | Glycine  | A  |
| G  | Alanine       | Valine    | Glutamic acid | Glycine  | C  |

8. **karyotype** - a picture of the actual chromosomes of the organism, arranged in pairs

